Water Quality Status Report No. 118

Ground Water Study of the Lower Boise River Valley Ada and Canyon Counties, Idaho

Idaho Department of
Health and Welfare
Division of Environmental Quality
May 1996

APPENDIX C

Table 9

VOC Results

Headnotes for Tables 8, 9, 10, and 11

Well Location: well location in latitude and longitude or township, range and section

Primary Use of Water:

H	domestic
I	irrigation
P	public supply
C	commercial
D	dewater
S	stock
F	fire

Units of Measure:

°C	degrees celsius
US/CM	microsiemens per centimeter at 25 °C
<	less than
>	greater than
MG/L	milligrams per liter
STAND UNITS	standard units
MG/L as N	milligrams per liter as nitrogen
DISS	dissolved
MG/L as PO4	milligrams per liter as phosphate
MG/L as P	milligrams per liter as phosphorus
COL/100 ML	colonies per 100 milliliters
PCI/L	picocuries per liter
UG/L	micrograms per liter
H2O	water
REC	recoverable
GF	glass fiber filter
FLT	filtered
U	micron (filter pore size)
ND	non-detect
*	results from Dept. of Ag study
MG/L as CACO3	milligrams per liter as calcium carbonate
MG/L as CA	milligrams per liter as calcium
MG/L as MG	milligrams per liter as magnesium
MG/L as NA	milligrams per liter as sodium
MG/L as K	milligrams per liter as potassium
MG/L as CL	milligrams per liter as chloride
MG/L as SO4	milligrams per liter as sulfate
MG/L as F	milligrams per liter as fluoride
MG/L as SIO2	milligrams per liter as silica
UG/L as AS	micrograms per liter as arsenic
UG/L as CD	micrograms per liter as cadmium
UG/L as CR	micrograms per liter as chromium
UG/L as FE	micrograms per liter as iron

Units of Measure continued:

UG/L as PB	micrograms per liter as lead
UG/L as MN	micrograms per liter as manganese
UG/L as ZN	micrograms per liter as zinc
UG/L as SE	micrograms per liter as selenium

Empty Box: no information available

Volatile Organic Compounds (VOCs) were analyzed at every site with a portable gas chromatograph for presence or absence. Sites with VOCs present had duplicates sent to Alpha Analytical Laboratory in Sparks, Nevada, those results can be found in Table 9.

Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	A	B	C	D	E	F	G	H
1	LATITUDE	LONGITUDE	TOWNSHIP RANGE & SECTION	DATE SAMPLED	TEMP °C	WELL DEPTH (FEET)	CHLORO BENZENE (UG/L)	1,2,3-TRI CHLORO BENZENE (UG/L)
2								
3								
4								
5								
6								
32	43°43'15"	116°23'32"	04N 01E 06BBB1	07-17-95	15	67	ND	ND
33	43°41'45"	116°21'53"	04N 01E 08CAD1	07-19-95	15	462	ND	ND
34	43°42'23"	116°18'39"	04N 01E 11BBB1	07-17-95	16.5	203	ND	ND
35	43°41'28"	116°17'02"	04N 01E 13BAAA1	07-25-95	17	150	ND	ND
36	43°41'03"	116°16'43"	04N 01E 13DBAA1	09-21-95	15.5	85	ND	
37	43°40'06"	116°17'46"	04N 01E 23DAC1	07-27-95	17.5	403	ND	ND
38	43°38'10"	116°22'57"	04N 01E 31DCBC1	10-17-95	12.5	56	ND	
39	43°38'03"	116°22'53"	04N 01E 31DCCD1	10-17-95	13	82	ND	
40	43°38'12"	116°22'26"	04N 01E 31DDAA1	09-21-95	12	86	ND	
41	43°38'24"	116°20'10"	04N 01E 33DABD1	09-26-95	14	97.3	ND	
42	43°38'08"	116°20'01"	04N 01E 33DDDA1	09-26-95	13.5	97	ND	
43	43°42'44"	116°24'11"	04N 01W 01CAA1	07-20-95	13.5	260	ND	ND
44	43°43'15"	116°25'02"	04N 01W 02AAB1	07-19-95	14	68	ND	ND
45	43°41'39"	116°23'15"	04N 01W 12DDB1	07-21-95	14	81	ND	ND
46	43°41'51"	116°31'55"	04N 02W 12CBC1	07-12-95	13.5	155	ND	ND
47	43°39'08"	116°36'42"	04N 02W 29CCB1	07-20-95	14.5	130	ND	ND
48	43°39'35"	116°36'47"	04N 02W 30ADA1	08-22-95	15	80	ND	ND
49	43°42'10"	116°42'27"	04N 03W 09BBD1	07-25-95	15	200	ND	ND
50	43°41'28"	116°38'36"	04N 03W 13BAA1	08-13-95	15.5	185	ND	ND
51	43°36'19"	116°21'40"	05N 01E 33CBCC1	10-12-95	14	174	ND	
52	43°43'21"	116°19'08"	05N 01E 34DCD1	08-06-95	13.5	54	ND	ND
53	43°43'45"	116°26'15"	05N 01W 34ACDA1	09-06-95	13.5	120	ND	ND
54	43°43'35"	116°26'15"	05N 01W 34DBAD1	09-06-95	13.5	74	ND	ND
55	43°43'35"	116°26'15"	05N 01W 34DBAD2	09-13-95	13.5	72.6	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	I	J	K	L	M	N	O	P	Q
1	1,2,4-TRI CHLORO BENZENE WATER (UG/L)	1,2,4-TRI-METHYL BENZENE (UG/L)	1,3,5-TRI METHYL BENZENE (UG/L)	1,4-DI CHLORO BENZENE WATER (UG/L)	BENZENE (UG/L)	BROMO BENZENE (UG/L)	ETHYL BENZENE (UG/L)	ISOPROPYL BENZENE (UG/L)	n-BUTYL BENZENE (UG/L)
2									
3									
4									
5									
6									
32	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	ND	ND	ND
36				ND	ND		ND		
37	ND	ND	ND	ND	ND	ND	ND	ND	ND
38				ND	ND		ND		
39				ND	ND		ND		
40				ND	ND		ND		
41				ND	ND		ND		
42				ND	ND		ND		
43	ND	ND	ND	ND	ND	ND	ND	ND	ND
44	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	ND	ND	ND
51				ND	ND		ND		
52	ND	ND	ND	ND	ND	ND	ND	ND	ND
53	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	R	S	T	U	V	W	X	Y	Z
1	n-PROPYL BENZENE (UG/L)	sec-BUTYL BENZENE (UG/L)	tert-BUTYL BENZENE (UG/L)	BROMO FORM (UG/L)	CARBON TETRA CHLORIDE (UG/L)	CHLORO BENZENE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	DI-BROMO CHLORO METHANE (UG/L)
2									
3									
4									
5									
6									
32	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	ND	ND	ND
36				ND	ND	ND		ND	ND
37	ND	ND	ND	ND	ND	ND	ND	ND	ND
38				ND	ND	ND		ND	ND
39				ND	ND	ND		ND	ND
40				ND	ND	ND		ND	ND
41				ND	ND	ND		ND	ND
42				ND	ND	ND		ND	ND
43	ND	ND	ND	ND	ND	ND	ND	ND	ND
44	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	ND	ND	ND
51				ND	ND	ND		ND	ND
52	ND	ND	ND	ND	ND	ND	ND	ND	ND
53	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	DI BROMO METHANE (UG/L)	BROMO DI CHLORO METHANE (UG/L)	1,1-DI CHLORO ETHANE (UG/L)	1,1,1-TRI CHLORO ETHANE (UG/L)	1,1,1,2-TETRA CHLORO ETHANE WATER (UG/L)	1,1,2-TRI CHLORO ETHANE (UG/L)	1,1,2,2-TETRA CHLORO ETHANE WATER (UG/L)	1,2-DI BROMO ETHANE (UG/L)	1,2-DI CHLORO ETHANE (UG/L)	TRI-CHLORO FLUORO ETHANE (UG/L)
2										
3										
4										
5										
6										
32	ND	ND	ND	ND	ND	ND	ND		ND	
33	ND	ND	ND	ND	ND	ND	ND		ND	ND
34	ND	ND	ND	ND	ND	ND	ND		ND	
35	ND	ND	ND	ND	ND	ND	ND		ND	
36		ND	ND	ND					ND	ND
37	ND	ND	ND	ND	ND	ND	ND		ND	
38		ND	ND	ND					ND	ND
39		ND	ND	ND					ND	ND
40		ND	ND	ND					ND	ND
41		ND	ND	0.4					ND	ND
42		ND	ND	ND					ND	ND
43	ND	ND	ND	ND	ND	ND	ND		ND	
44	ND	ND	ND	ND	ND	ND	ND		ND	
45	ND	ND	ND	ND	ND	ND	ND		ND	
46	ND	ND	ND	ND	ND	ND	ND		ND	
47	ND	ND	ND	ND	ND	ND	ND		ND	
48	ND	ND	ND	ND	ND	ND	ND		ND	
49	ND	ND	ND	ND	ND	ND	ND		ND	
50	ND	ND	ND	ND	ND	ND	ND		ND	
51		ND	ND	ND					ND	ND
52	ND	ND	ND	ND	ND	ND	ND		ND	
53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1	METHYL	1,1-DI	cis-1,2-	trans-	TETRA	TRI	HEXA	METHYL	BROMO	DI-
2	ETHER	CHLORO	DI	1,2-DI	CHLORO	CHLORO	CHLORO	BROMIDE	CHLORO	CHLORO
3	TERT	ETHYLENE	CHLORO	CHLORO	ETHYL	ETHYL	BUT	(UG/L)	METHANE	METHANE
4	BUTYL	(UG/L)	ETHENE	ETHENE	ENE	ENE	ADIENE		(UG/L)	(UG/L)
5	(UG/L)		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)			
6										
32		ND	ND	ND	ND	ND	ND	ND	ND	ND
33		ND	ND	ND	ND	ND	ND	ND	ND	ND
34		ND	ND	ND	ND	ND	ND	ND	ND	ND
35		ND	ND	ND	ND	ND	ND	ND	ND	ND
36	ND	ND	ND	ND	ND	ND				
37		ND	ND	ND	ND	ND	ND	ND	ND	ND
38	ND	ND	ND	ND	0.11	ND				
39	ND	ND	ND	ND	ND	ND				
40	ND	ND	ND	ND	0.1	ND				
41	ND	ND	ND	ND	ND	ND				
42	ND	ND	ND	ND	0.2	ND				
43		ND	ND	ND	ND	ND	ND	ND	ND	ND
44		ND	ND	ND	ND	ND	ND	ND	ND	ND
45		ND	ND	ND	ND	ND	ND	ND	ND	ND
46		ND	ND	ND	ND	ND	ND	ND	ND	ND
47		ND	ND	ND	ND	ND	ND	ND	ND	ND
48		ND	ND	ND	ND	ND	ND	ND	ND	ND
49		ND	ND	ND	ND	ND	ND	ND	ND	ND
50		ND	ND	ND	ND	ND	ND	ND	ND	ND
51	ND	ND	ND	ND	ND	1.1				
52		ND	ND	ND	ND	ND	ND	ND	ND	ND
53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1	DI	TRI	METHYL	NAPHTH	DIBROMO	1,2-DI	1,2,3-TRI	1,3-DI	2,2-DI	1,1-DI
2	CHLORO	CHLORO	ENE	ALENE	CHLORO	CHLORO	CHLORO	CHLORO	CHLORO	CHLORO
3	DI	FLUORO	CHLORIDE	(UG/L)	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPENE
4	FLUORO	METHANE	(UG/L)		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
5	METHANE	(UG/l0								
6	(UG/L)									
32	ND	ND	ND	ND		ND	ND	ND	ND	ND
33	ND	ND	ND	ND		ND	ND	ND	ND	ND
34	ND	ND	ND	ND		ND	ND	ND	ND	ND
35	ND	ND	ND	ND		ND	ND	ND	ND	ND
36	ND	ND	ND			ND				
37	ND	ND	ND	ND		ND	ND	ND	ND	ND
38	ND	ND	ND			ND				
39	ND	ND	ND			ND				
40	ND	ND	ND			ND				
41	ND	ND	ND			ND				
42	ND	ND	ND			ND				
43	ND	ND	ND	ND		ND	ND	ND	ND	ND
44	ND	ND	ND	ND		2.64	5.01	ND	ND	ND
45	ND	ND	ND	ND		ND	ND	ND	ND	ND
46	ND	ND	ND	ND		ND	ND	ND	ND	ND
47	ND	ND	ND	ND		ND	ND	ND	ND	ND
48	ND	ND	ND	ND		ND	ND	ND	ND	ND
49	ND	ND	ND	ND		ND	ND	ND	ND	ND
50	ND	ND	ND	ND		ND	ND	ND	ND	ND
51	ND	ND	ND			ND				
52	ND	ND	ND	ND		ND	ND	ND	ND	ND
53	ND	ND	ND	ND	ND	0.6	7.9	ND	ND	ND
54	ND	ND	ND	ND	ND	1.3	22	ND	ND	ND
55	ND	ND	ND	ND	ND	1.3	17	ND	ND	ND

Spreadsheet 2

Volatile Organic Compound Results of Sites Sampled by DEQ and USGS

Table 9

	BE	BF	BG	BH	BI	BJ	BK	BL	BM
1	cis-1,3-DI CHLORO PROPENE (UG/L)	TRANS 1,3-DI CHLORO PROPENE (UG/L)	STYRENE (UG/L)	TOLUENE (UG/L)	o-CHLORO TOLUENE (UG/L)	p-CHLORO TOLUENE (UG/L)	p-ISO PROPYL TOLUENE (UG/L)	VINYL CHLORIDE (UG/L)	XYLENE (UG/L)
2									
3									
4									
5									
6									
32		ND	ND	ND	ND	ND	ND	ND	ND
33		ND	ND	ND	ND	ND	ND	ND	ND
34		ND	ND	ND	ND	ND	ND	ND	ND
35		ND	ND	ND	ND	ND	ND	ND	ND
36			ND	ND				ND	ND
37		ND	ND	ND	ND	ND	ND	ND	ND
38			ND	ND				ND	ND
39			ND	ND				ND	ND
40			ND	ND				ND	ND
41			ND	ND				ND	ND
42			ND	ND				ND	ND
43		ND	ND	ND	ND	ND	ND	ND	ND
44		ND	ND	ND	ND	ND	ND	ND	ND
45		ND	ND	ND	ND	ND	ND	ND	ND
46		ND	ND	ND	ND	ND	ND	ND	ND
47		ND	ND	ND	ND	ND	ND	ND	ND
48		ND	ND	ND	ND	ND	ND	ND	ND
49		ND	ND	ND	ND	ND	ND	ND	ND
50		ND	ND	ND	ND	ND	ND	ND	ND
51			ND	ND				ND	ND
52		ND	ND	ND	ND	ND	ND	ND	ND
53	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND

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